NOVEMBER/DECEMBER 2024

23PCS13 — PYTHON PROGRAMMING

Shanmuga Industries Arts & Science College
T.V.Malai

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is an Interpreted Language?
2. What are the distinct numeric types in Python?
3. Differentiate between Scope and Namespace.
4. Define the term Exception.
5. What is "__init__" in Python?
6. Define the term Method overriding.
7. What is slicing in Python?
8. What is the difference between .py and .pyc files?
9. Define the term Green Thread.
10. What is meant by Big Fat Data?

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Enumerate the advantages of Python programming.

Or

(b) Write a brief note on Python operators.

12. (a) Outline the various *if* statements in Python.

Or

(b) Examine the role of functions in Python.

13. (a) Explain the procedure to use command line arguments in Python.

Or

(b) Discuss about Inheritance *vs* Composition.

14. (a) Explain the manipulation of structured text files in Python.

Or

(b) Write a brief note on Relational Databases.

15. (a) Write a Python program to count the number of files in a directory.

Or

(b) Write a brief note on Working with Cloud storage.

Shanmuga Industries Arts & Science College T.V.Malai

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the significance of any five methods used in Python Sequences.

17. Discuss the various looping statements in Python with an example.

18. Develop a Python program to create a Shape class with area() and perimeter() functions and override them in different shapes like Circle and Rectangle classes. Explain the concept behind on this program.

19. Discuss about the Web Services and Automation.

20. Develop an application in Python for implementing TCP/IP communication using Sockets.

———————